

## CLAIMS

### What is claimed is:

1. A microscope for viewing samples in stereoscopic and in compound optical images in transmitted light brightfield and reflected light fluorescence, said microscope comprising:

a stereo lens;

5 a compound lens;

a nosepiece carrying said stereo lens and said compound lens;

stereo microscope body that is shiftable about an axis to be placed properly over the stereo lens or the compound lens;

10 a transmitted light base for providing illumination for transmitted light brightfield for said stereo and compound lenses; and

a prism shift mechanism to create binocular images from a single axis compound image created.